

Virtual Training of Compressor Control Room, Phase I

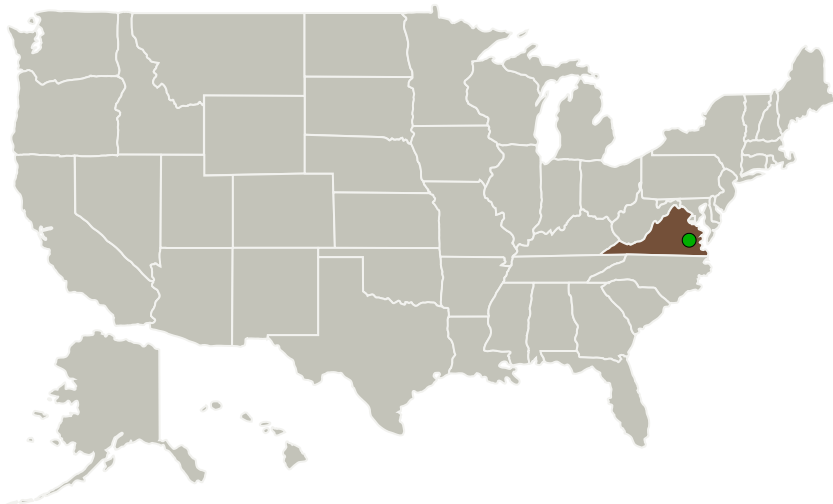
Completed Technology Project (2014 - 2014)



Project Introduction

MYMIC will analyze, design, develop and evaluate the Virtual Control Room – Compressor Station (VCoR-CS) training system. VCoR-CS will provide procedural training to NASA operators within a 3D virtual environment that realistically models the Compressor Station Control Room. It will include an accessible information repository to store expert knowledge and Standard Operating Procedures for display via a simple, training interface. VCoR-CS will leverage a "crawl-walk-run" learning approach with practice and assessments levels in order to allow users to slowly increase the cognitive load and difficulty of their training. A log-in capability will enable user performance to be tracked and training to be accessed on-demand. MYMIC will evaluate the effectiveness of VCoR-CS training prototype and adherence to its learning objectives. Project efforts and results will be incorporated into a Final Report. MYMIC will also conceptualize the expansion of VCoR-CS to include emergency preparedness and scenario-based training modules for future, follow-on efforts.

Primary U.S. Work Locations and Key Partners



Virtual Training of Compressor Control Room Project Image

Table of Contents

Project Introduction	1
Primary U.S. Work Locations and Key Partners	1
Project Transitions	2
Images	2
Organizational Responsibility	2
Project Management	2
Technology Maturity (TRL)	2
Technology Areas	3
Target Destinations	3

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Organizations Performing Work	Role	Type	Location
Mymic, LLC	Lead Organization	Industry	Portsmouth, Virginia
● Langley Research Center(LaRC)	Supporting Organization	NASA Center	Hampton, Virginia

Primary U.S. Work Locations

Virginia

Project Transitions

**June 2014:** Project Start**December 2014:** Closed out

Closeout Documentation:

- Final Summary Chart(<https://techport.nasa.gov/file/137737>)

Images



Project Image

Virtual Training of Compressor Control Room Project Image
(<https://techport.nasa.gov/image/130502>)

Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Organization:

Mymic, LLC

Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

Project Management

Program Director:

Jason L Kessler

Program Manager:

Carlos Torrez

Principal Investigator:

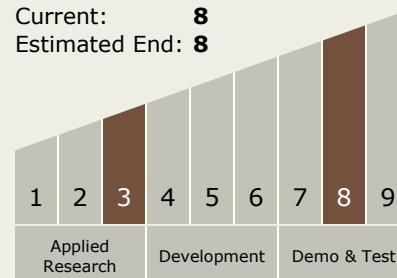
Ashley Medford

Technology Maturity (TRL)

Start: 3

Current: 8

Estimated End: 8



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Technology Areas

Primary:

- TX13 Ground, Test, and Surface Systems
 - └ TX13.4 Mission Success Technologies
 - └ TX13.4.2 Team Preparedness and Training

Target Destinations

The Moon, Mars, Outside the Solar System, The Sun, Earth, Others Inside the Solar System